

REMARKS

Applicants respectfully request reconsideration of the present U.S. patent application. Claims 1-33 stand rejected under 35 U.S.C. § 112. Claims 1-16, 18-27 and 29-33 stand rejected under 35 U.S.C. § 103. Claims 17 and 28 were rejected as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form. Claims 1-3, 10, 11, 16, 17, 20, 25, 26 and 29 have been amended. Claims 8, 27 and 28 have been canceled. No claims have been added. Therefore, claims 1-7, 9-26 and 29-33 remain pending.

Claim Rejections - 35 U.S.C. § 112

Claims 1-33 were rejected under 35 U.S.C. § 112, first paragraph, as based on a disclosure that was not enabling, because the aspect of a substrate being undoped was included in the claims but not explicitly stated in the specification. Applicants have amended the claims to delete references to an undoped substrate. Applicants therefore respectfully request that the Examiner withdraw the rejections of claims 1-33 under 35 U.S.C. § 112.

Claim Rejections - 35 U.S.C. § 103

Rejections of Claims 1-16, 18-27 and 29-33 based on *Hoffman*

Claims 1-16, 18-27 and 29-33 were rejected under 35 U.S.C. § 103 as being unpatentable over U.S. Patent No. 6,482,672 issued to Hoffman et al. (*Hoffman*). Claims 8, 27 and 28 have been canceled. Therefore, the rejections of claims 8, 27 and 28 as being unpatentable over *Hoffman* are moot. For at least the reasons set forth below,

Applicants submit that claims 1-7, 9-16, 18-26 and 29-33 are not rendered obvious by *Hoffman*.

Claims 17 and 28 include allowable subject matter and thus are not rendered obvious by *Hoffman*. See Office Action, page 8, paragraphs 7 and 8. Applicants have amended claims 1 and 20 to include the allowable subject matter of claim 28, and amended claim 11 to include the allowable subject matter of claim 17. Therefore, claims 1, 11 and 20 as amended are not rendered obvious by *Hoffman*. Applicants therefore respectfully request that the Examiner withdraw the rejections of claims 1, 11 and 20 under 35 U.S.C. § 103.

Claim 2-7, 9 and 10 depend from claim 1. Claims 12-19 depend from claim 11. Claims 21-26 and 29-33 depend from claim 20. Because dependent claims include the limitations of the claims from which they depend, Applicants submit that claims 2-7, 9, 10, 12-19, 21-26 and 29-33 are not rendered obvious by *Hoffman* for at least the reasons set forth above. Applicants therefore respectfully request that the Examiner withdraw the rejections of claims 2-7, 9, 10, 12-19, 21-26 and 29-33 under 35 U.S.C. § 103.

Allowable Subject Matter

Claims 17 and 28 have been objected to as being dependent upon a rejected base claim but would be allowable if rewritten in independent form to include all of the limitations of the base claim and any intervening claims.

As stated above, Applicants have amended claims 1 and 20 to include the allowable subject matter of claim 28, and amended claim 11 to include the allowable subject matter of claim 17. In addition, Applicants have amended claim 17 to delete the allowable subject matter that was added to claim 11. Claim 17 depends from claim 11.

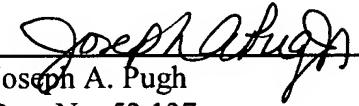
Applicants have canceled claim 28. Therefore, Applicants submit that although not rewritten in independent form to include all of the limitations of the base claim and any intervening claims, claim 17 is in condition for allowance.

CONCLUSION

For at least the foregoing reasons, Applicants submit that the rejections have been overcome. Therefore, claims 1-7, 9-26 and 29-33 are in condition for allowance and such action is respectfully solicited. The Examiner is respectfully requested to contact the undersigned by telephone if such contact would further the examination of the present application.

Respectfully submitted,

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